10/518576

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FIG. 1

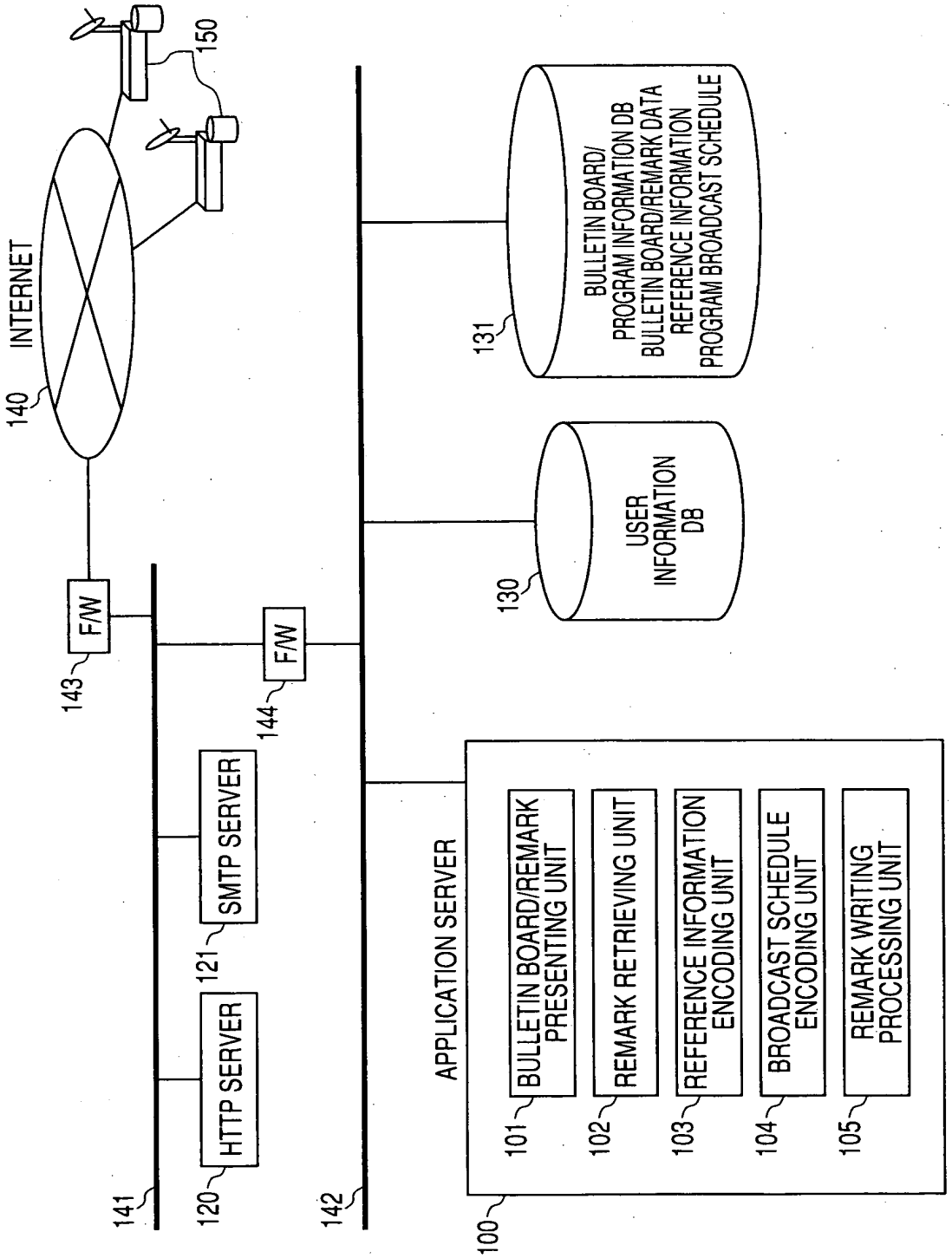


FIG. 2

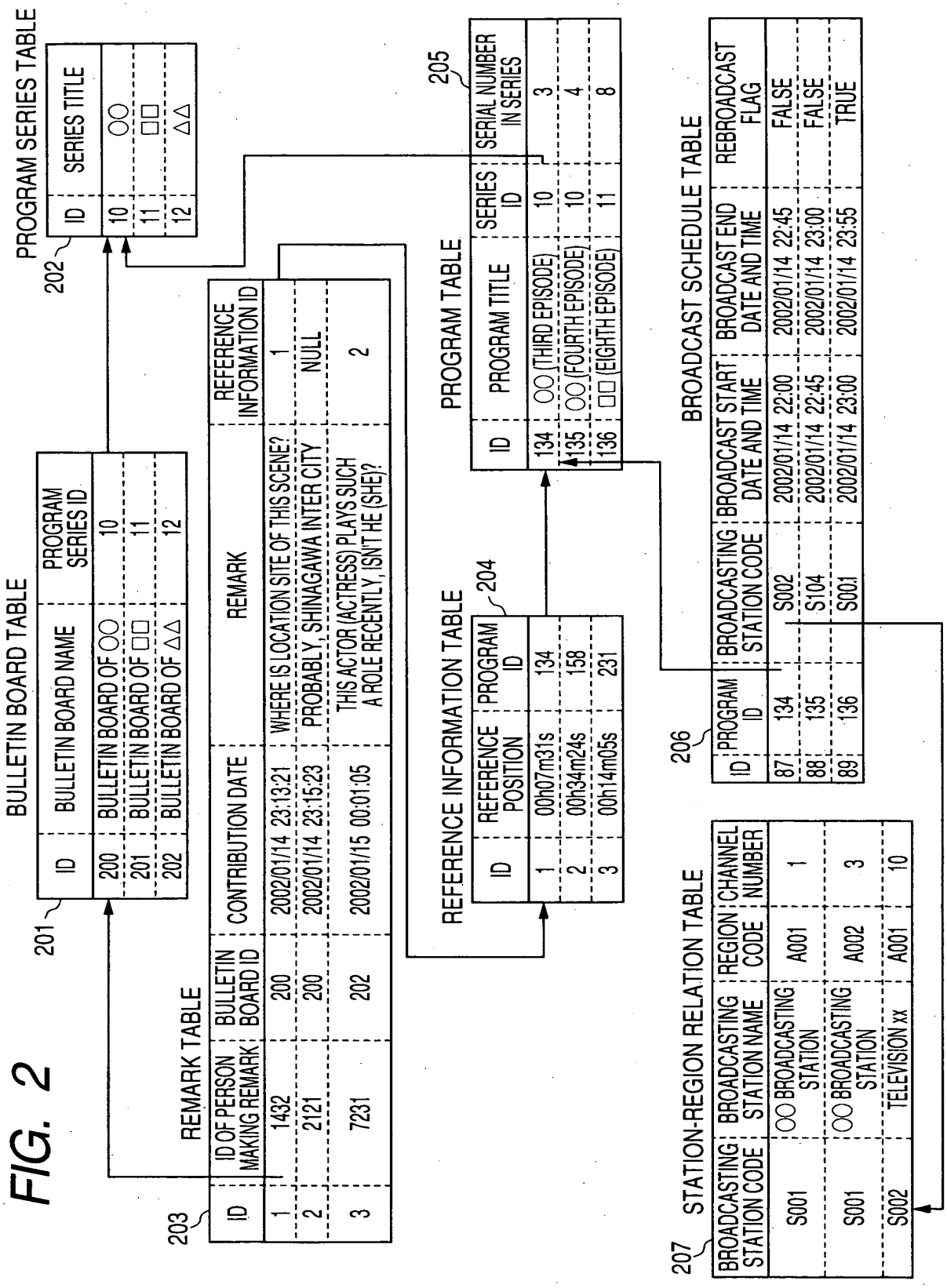
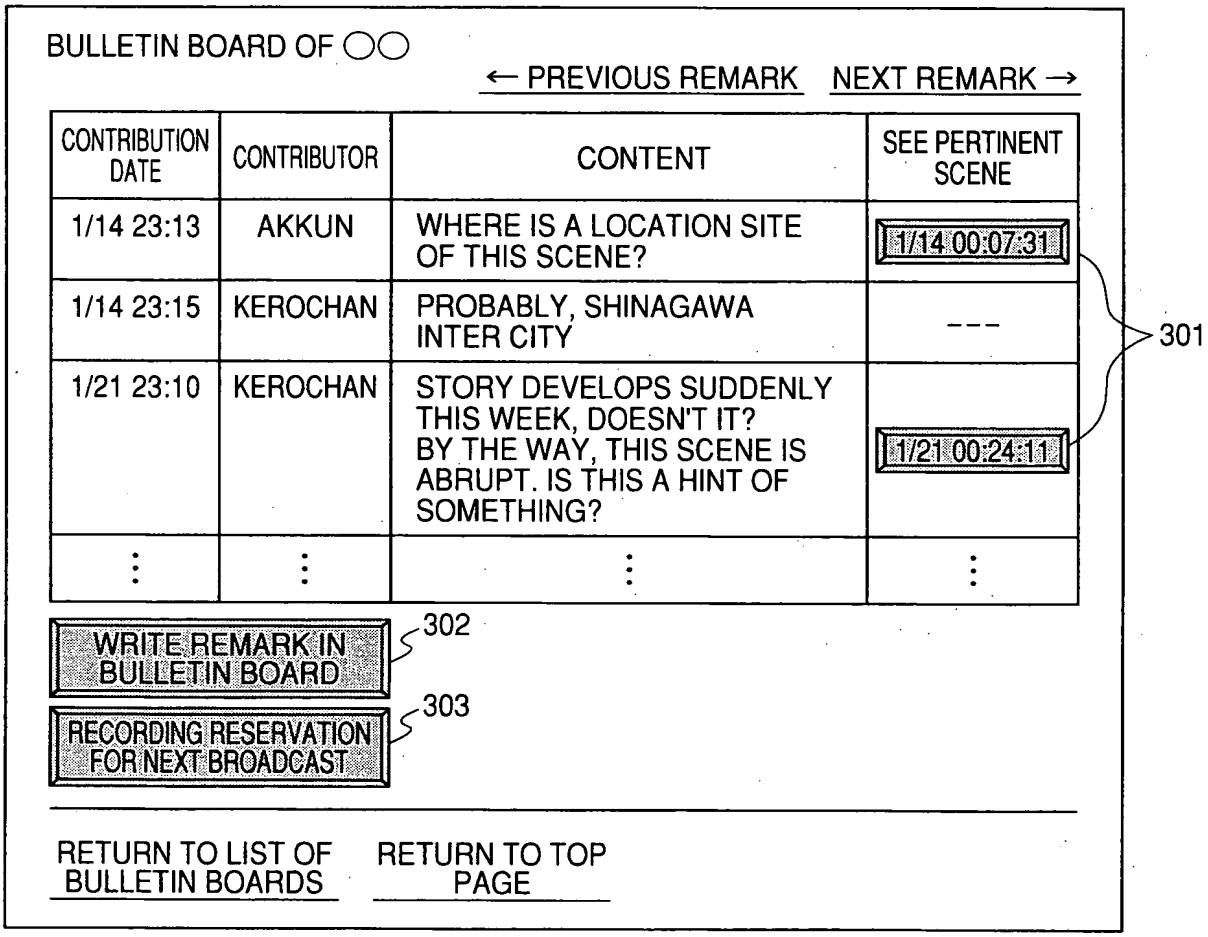

PROGRAM SERIES TABLE
202
ID
SERIES TITLE
10
○○
11
□□
12
△△
BULLETIN BOARD TABLE
201
ID
BULLETIN BOARD NAME
PROGRAM SERIES ID
200
BULLETIN BOARD OF ○○
10
201
BULLETIN BOARD OF □□
11
202
BULLETIN BOARD OF △△
12
REMARK TABLE
203
ID
ID OF PERSON MAKING REMARK
BULLETIN BOARD ID
CONTRIBUTION DATE
REMARK
REFERENCE INFORMATION ID
1
1432
200
2002/01/14 23:13:21
WHERE IS LOCATION SITE OF THIS SCENE?
1
2
2121
200
2002/01/14 23:15:23
PROBABLY, SHINAGAWA INTER CITY
NULL
3
7231
202
2002/01/15 00:01:05
THIS ACTOR (ACTRESS) PLAYS SUCH A ROLE RECENTLY, ISN'T HE (SHE)?
2
205
PROGRAM TABLE
ID
PROGRAM TITLE
SERIES ID
SERIAL NUMBER IN SERIES
134
○○ (THIRD EPISODE)
10
3
135
○○ (FOURTH EPISODE)
10
4
136
□□ (EIGHTH EPISODE)
11
8
REFERENCE INFORMATION TABLE
204
ID
REFERENCE POSITION
PROGRAM ID
1
00h07m31s
134
2
00h34m24s
158
3
00h14m05s
231
BROADCAST SCHEDULE TABLE
206
ID
PROGRAM ID
BROADCASTING STATION CODE
BROADCAST START DATE AND TIME
BROADCAST END DATE AND TIME
REBROADCAST FLAG
87
134
S002
2002/01/14 22:00
2002/01/14 22:45
FALSE
88
135
S104
2002/01/14 22:45
2002/01/14 23:00
FALSE
89
136
S001
2002/01/14 23:00
2002/01/14 23:55
TRUE
STATION-REGION RELATION TABLE
207
BROADCASTING STATION CODE
BROADCASTING STATION NAME
REGION CODE
CHANNEL NUMBER
S001
○○ BROADCASTING STATION
A001
1
S001
○○ BROADCASTING STATION
A002
3
S002
TELEVISION xx
A001
10

FIG. 3


BULLETIN BOARD OF ○○
← PREVIOUS REMARK
NEXT REMARK →
CONTRIBUTION DATE
CONTRIBUTOR
CONTENT
SEE PERTINENT SCENE
1/14 23:13
AKKUN
WHERE IS A LOCATION SITE OF THIS SCENE?
1/14 00:07:31
1/14 23:15
KEROCHAN
PROBABLY, SHINAGAWA INTER CITY

1/21 23:10
KEROCHAN
STORY DEVELOPS SUDDENLY THIS WEEK, DOESN'T IT? BY THE WAY, THIS SCENE IS ABRUPT. IS THIS A HINT OF SOMETHING?
1/21 00:24:11
301
WRITE REMARK IN BULLETIN BOARD
302
RECORDING RESERVATION FOR NEXT BROADCAST
303
RETURN TO LIST OF BULLETIN BOARDS
RETURN TO TOP PAGE

FIG. 4

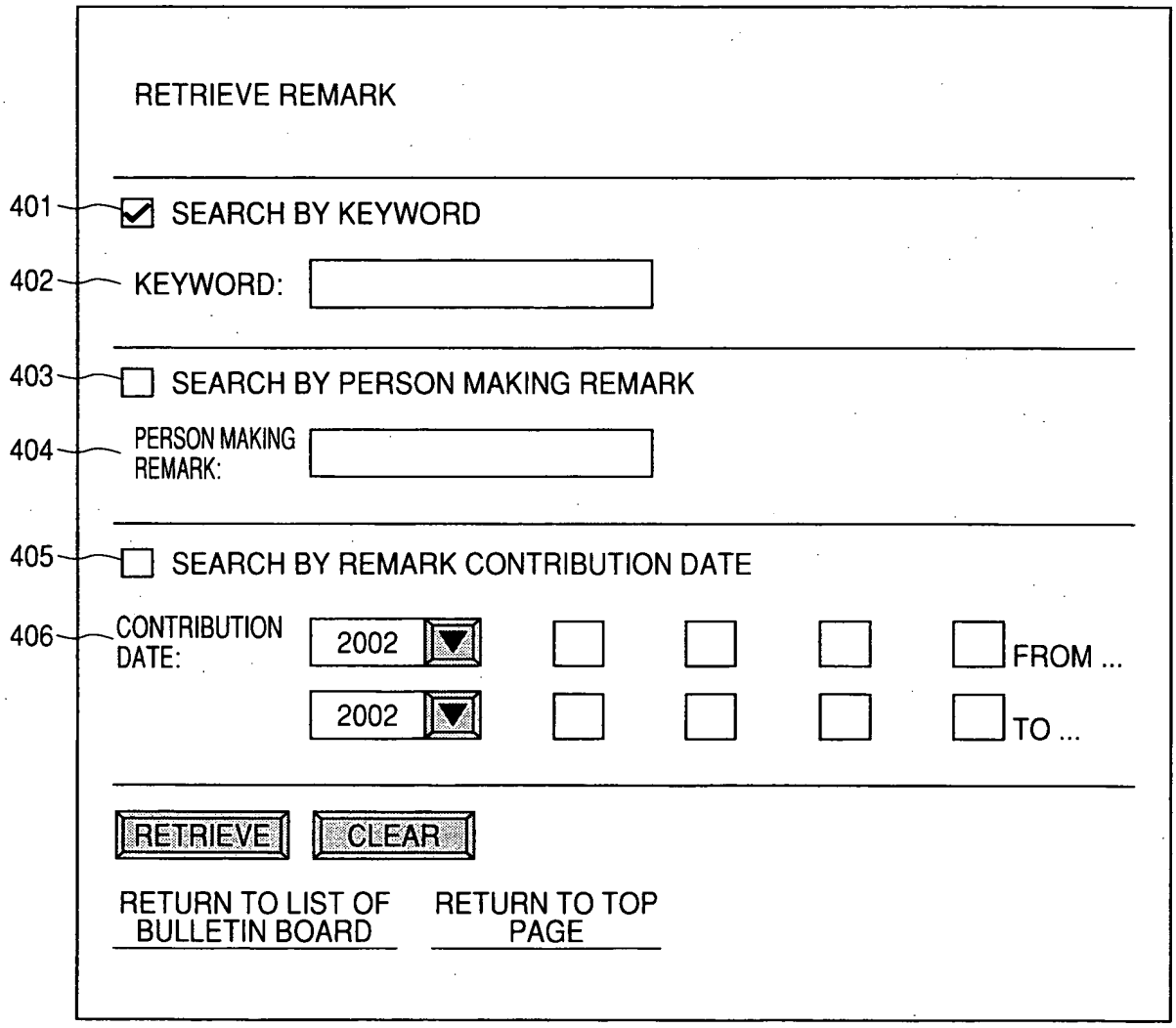

RETRIEVE REMARK
401
SEARCH BY KEYWORD
402
KEYWORD:
403
SEARCH BY PERSON MAKING REMARK
404
PERSON MAKING REMARK:
405
SEARCH BY REMARK CONTRIBUTION DATE
406
CONTRIBUTION DATE:
2002
FROM ...
2002
TO ...
RETRIEVE
CLEAR
RETURN TO LIST OF BULLETIN BOARD
RETURN TO TOP PAGE

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FIG. 5

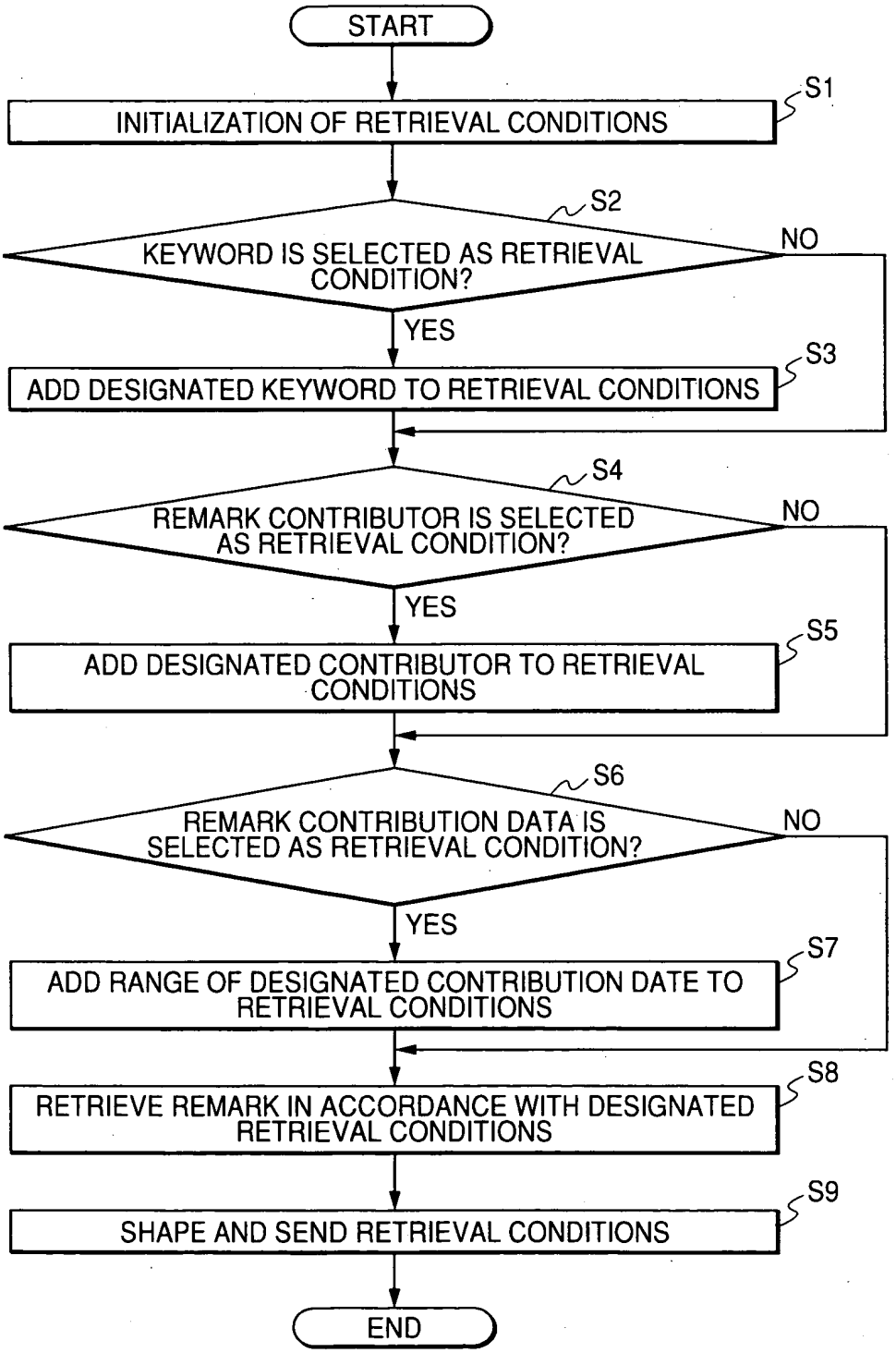

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FIG. 6

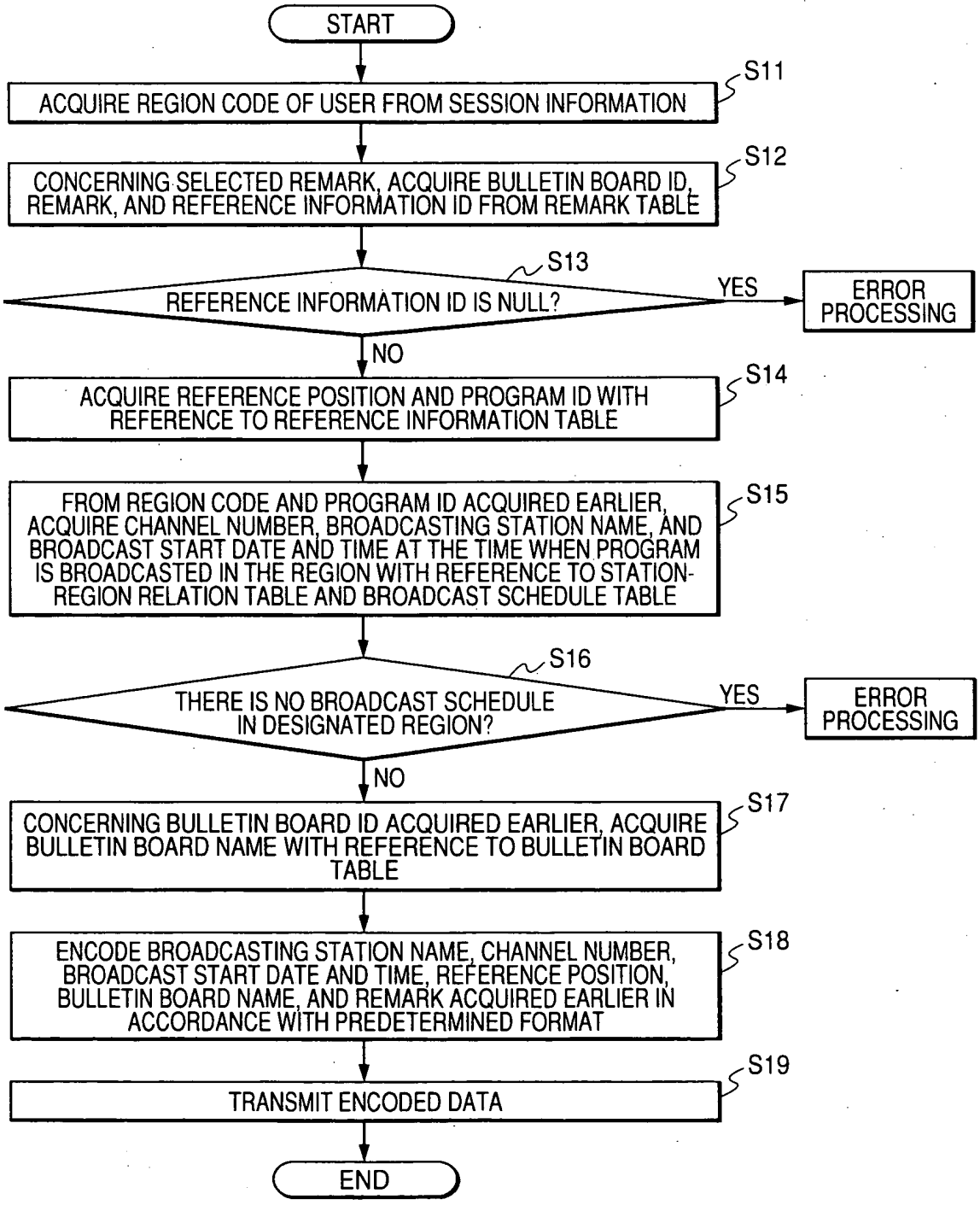

FIG. 7

```
1:   Content-Type: application/-xvzine-jump; charset=shift_jis
2:   Version: 1
3:   Station: xx BROADCASTING STATION
4:   Channel: 10
5:   Year: 2002
6:   Month: 1
7:   Date: 14
8:   Origin: 22:00:00.0
9:   Offset: 00:07:31.0
10:  Board-name: BULLETIN BOARD OF ○○
11:  Lines: 1
12:
13:  WHERE IS A LOCATION SITE OF THIS SCENE?
```

FIG. 8

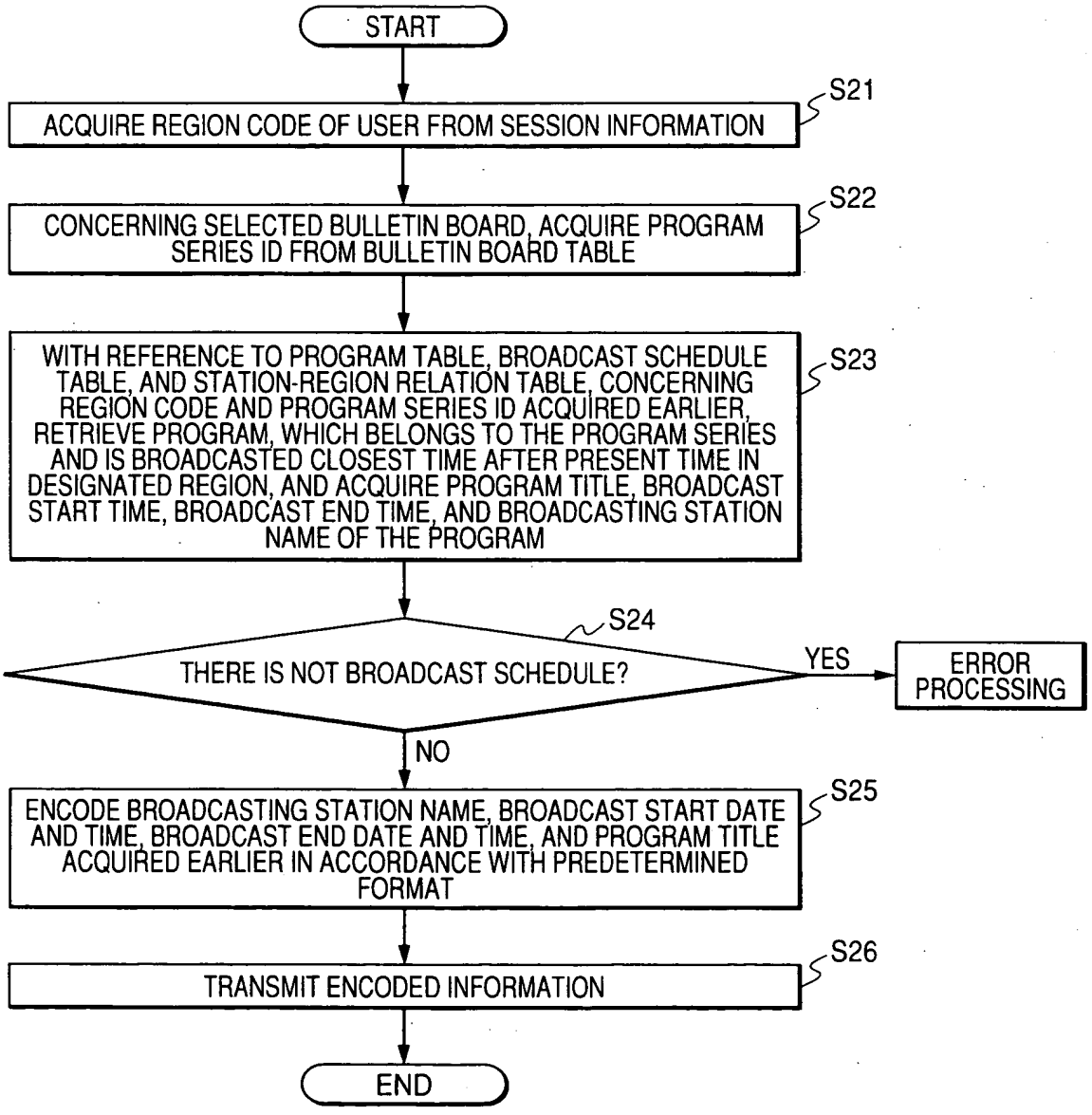
START
S21
ACQUIRE REGION CODE OF USER FROM SESSION INFORMATION
S22
CONCERNING SELECTED BULLETIN BOARD, ACQUIRE PROGRAM SERIES ID FROM BULLETIN BOARD TABLE
S23
WITH REFERENCE TO PROGRAM TABLE, BROADCAST SCHEDULE TABLE, AND STATION-REGION RELATION TABLE, CONCERNING REGION CODE AND PROGRAM SERIES ID ACQUIRED EARLIER, RETRIEVE PROGRAM, WHICH BELONGS TO THE PROGRAM SERIES AND IS BROADCASTED CLOSEST TIME AFTER PRESENT TIME IN DESIGNATED REGION, AND ACQUIRE PROGRAM TITLE, BROADCAST START TIME, BROADCAST END TIME, AND BROADCASTING STATION NAME OF THE PROGRAM
S24
THERE IS NOT BROADCAST SCHEDULE?
YES
ERROR PROCESSING
NO
S25
ENCODE BROADCASTING STATION NAME, BROADCAST START DATE AND TIME, BROADCAST END DATE AND TIME, AND PROGRAM TITLE ACQUIRED EARLIER IN ACCORDANCE WITH PREDETERMINED FORMAT
S26
TRANSMIT ENCODED INFORMATION
END

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FIG. 9

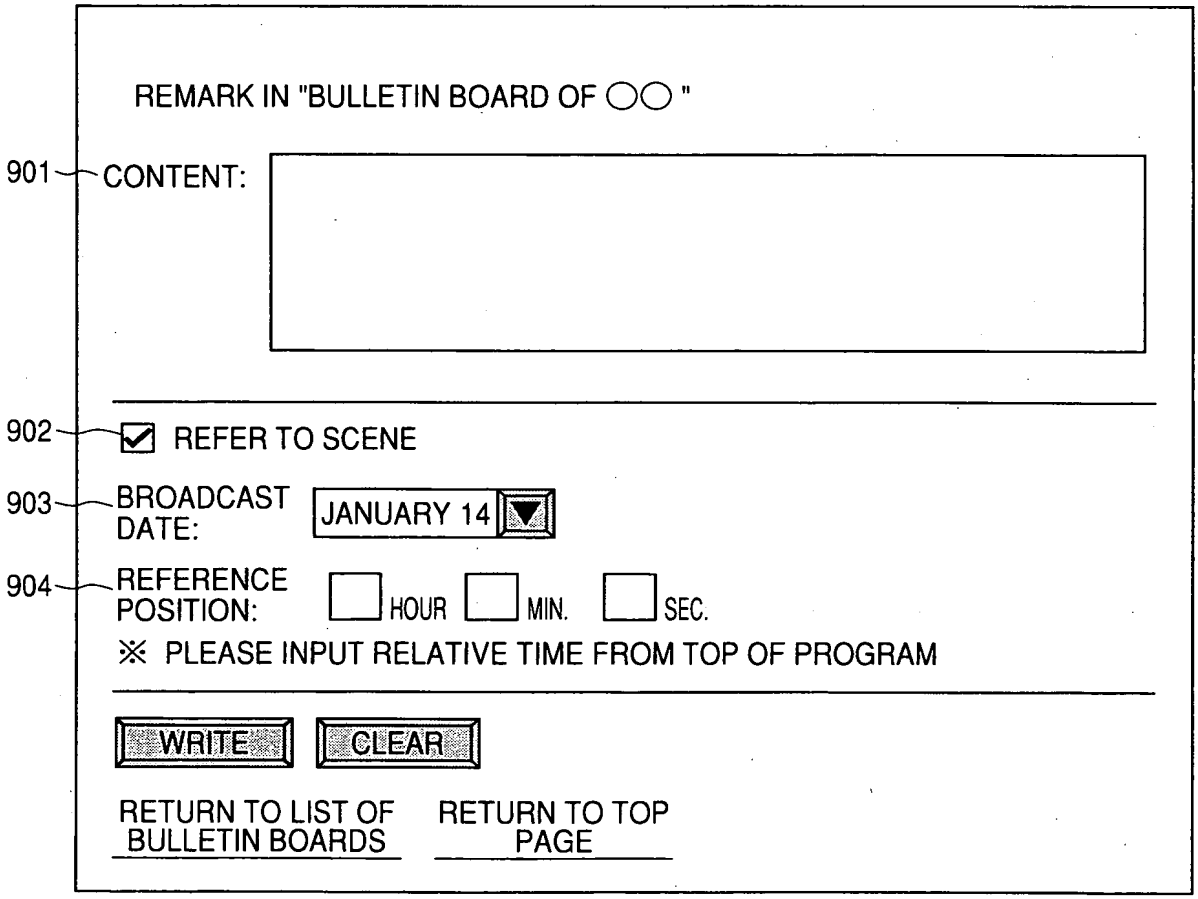


FIG. 10

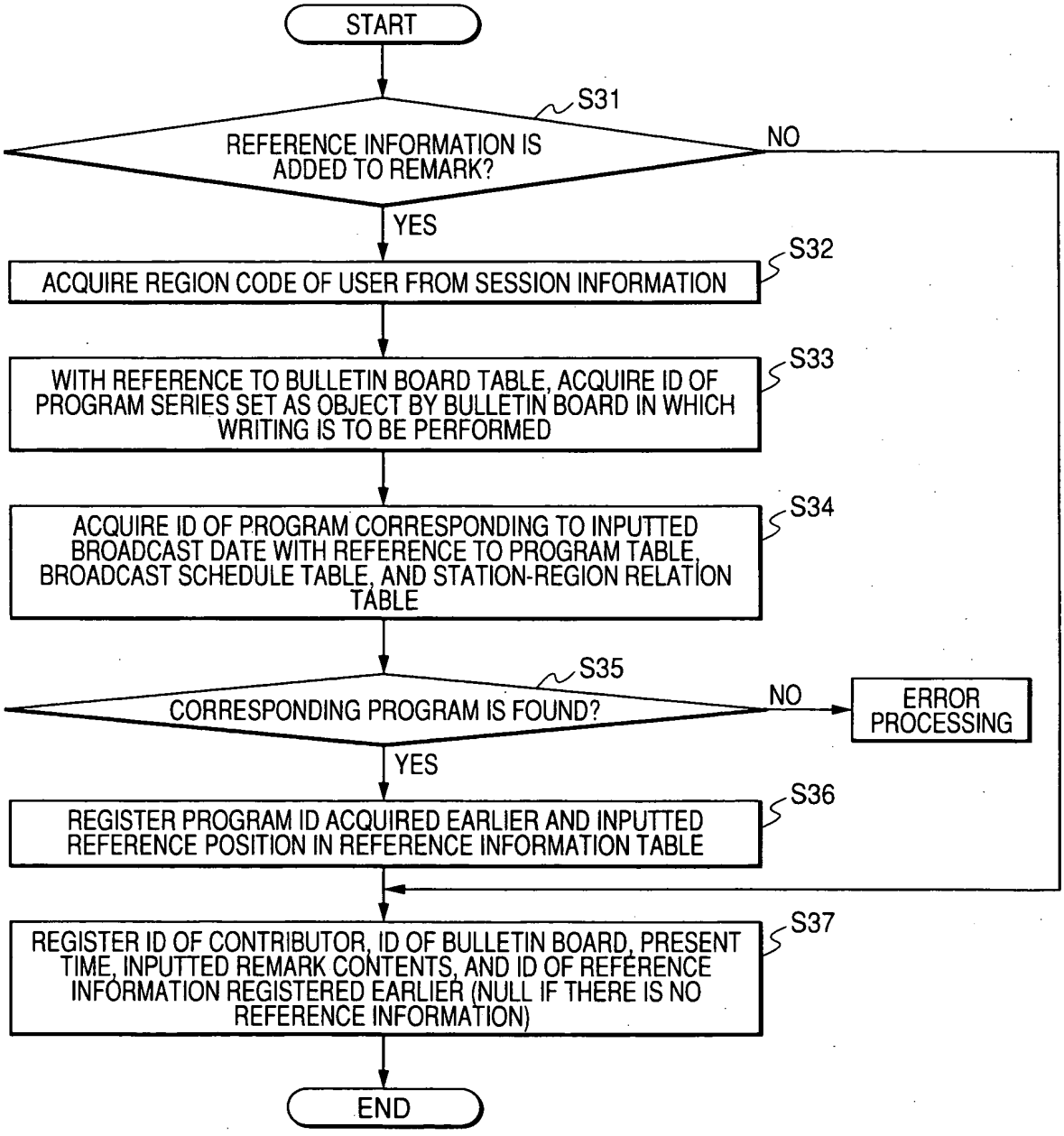

START
S31
REFERENCE INFORMATION IS ADDED TO REMARK?
NO
YES
S32
ACQUIRE REGION CODE OF USER FROM SESSION INFORMATION
S33
WITH REFERENCE TO BULLETIN BOARD TABLE, ACQUIRE ID OF PROGRAM SERIES SET AS OBJECT BY BULLETIN BOARD IN WHICH WRITING IS TO BE PERFORMED
S34
ACQUIRE ID OF PROGRAM CORRESPONDING TO INPUTTED BROADCAST DATE WITH REFERENCE TO PROGRAM TABLE, BROADCAST SCHEDULE TABLE, AND STATION-REGION RELATION TABLE
S35
CORRESPONDING PROGRAM IS FOUND?
NO
ERROR PROCESSING
YES
S36
REGISTER PROGRAM ID ACQUIRED EARLIER AND INPUTTED REFERENCE POSITION IN REFERENCE INFORMATION TABLE
S37
REGISTER ID OF CONTRIBUTOR, ID OF BULLETIN BOARD, PRESENT TIME, INPUTTED REMARK CONTENTS, AND ID OF REFERENCE INFORMATION REGISTERED EARLIER (NULL IF THERE IS NO REFERENCE INFORMATION)
END

FIG. 11

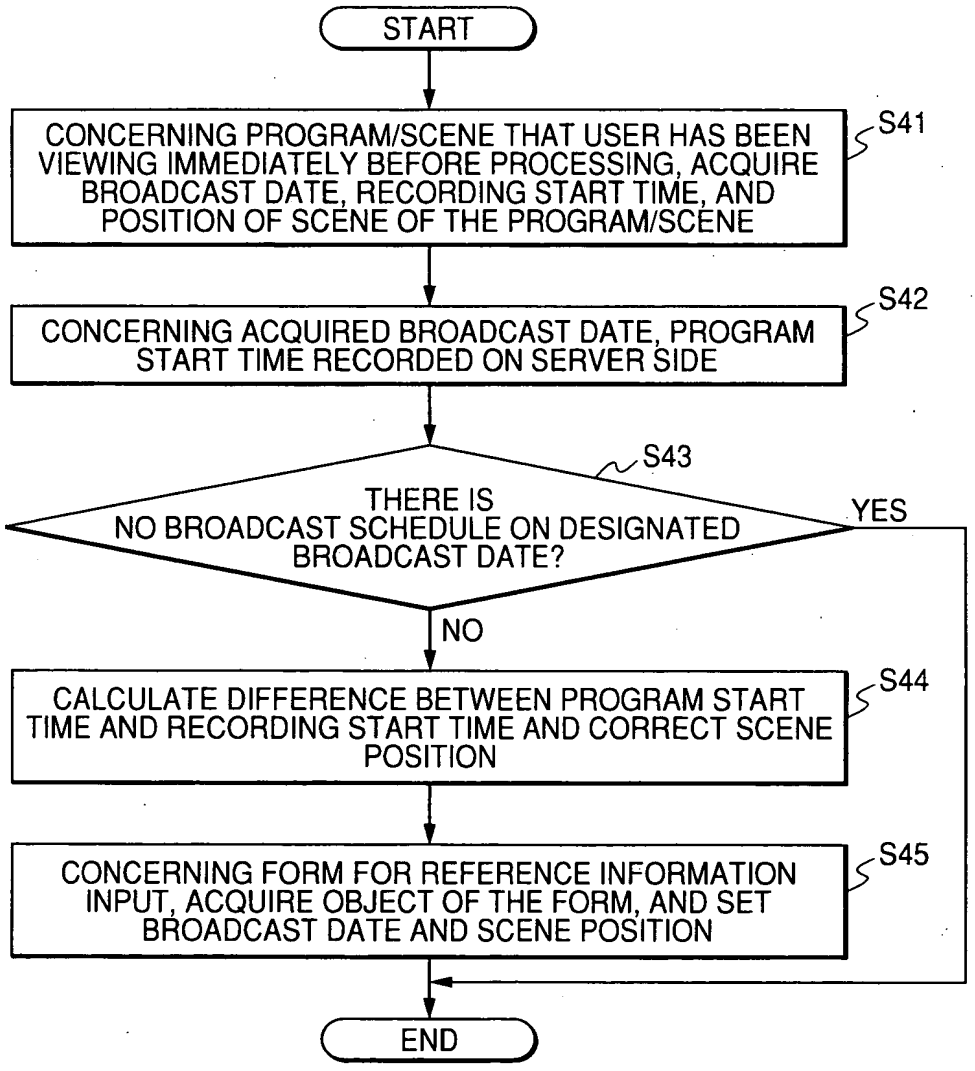

START
CONCERNING PROGRAM/SCENE THAT USER HAS BEEN VIEWING IMMEDIATELY BEFORE PROCESSING, ACQUIRE BROADCAST DATE, RECORDING START TIME, AND POSITION OF SCENE OF THE PROGRAM/SCENE
S41
CONCERNING ACQUIRED BROADCAST DATE, PROGRAM START TIME RECORDED ON SERVER SIDE
S42
S43
THERE IS NO BROADCAST SCHEDULE ON DESIGNATED BROADCAST DATE?
YES
NO
CALCULATE DIFFERENCE BETWEEN PROGRAM START TIME AND RECORDING START TIME AND CORRECT SCENE POSITION
S44
CONCERNING FORM FOR REFERENCE INFORMATION INPUT, ACQUIRE OBJECT OF THE FORM, AND SET BROADCAST DATE AND SCENE POSITION
S45
END

FIG. 12

```
1:     • • • • •
2:     <object
3:     classid="clsid: 12345ABC-1A2B-3D4F-1234-000000000001"
4:     • • • • •
5:     <param name="date" value="2002/01/14 22:00-22:45"/>
6:     <param name="date" hvalue="2002/01/21 22:00-22:45"/>
7:     • • • • •
8:     <param url="http://www.keijiban.example/post/?board-id=200"/>
9:     object>
10:    • • • • •
```

FIG. 13

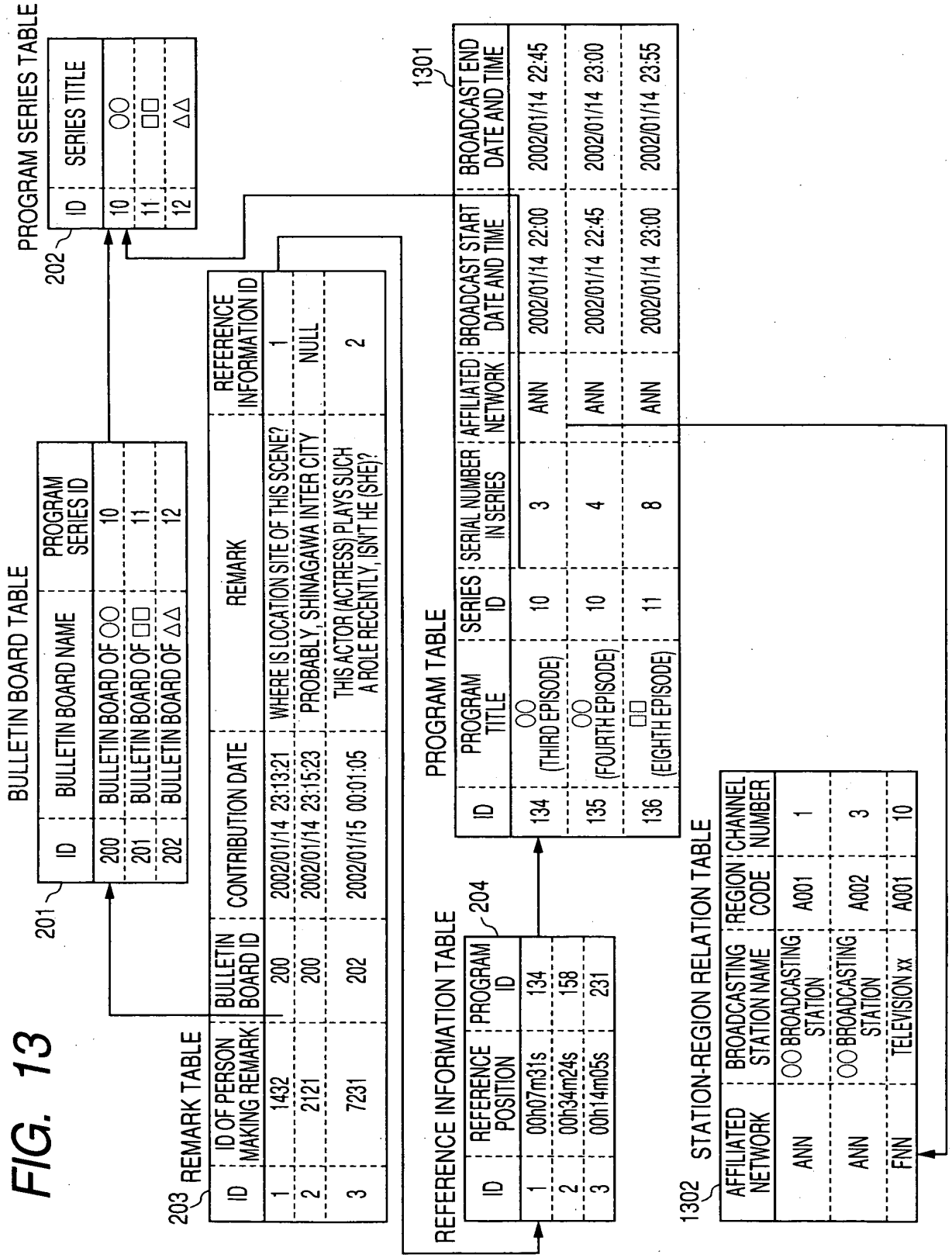
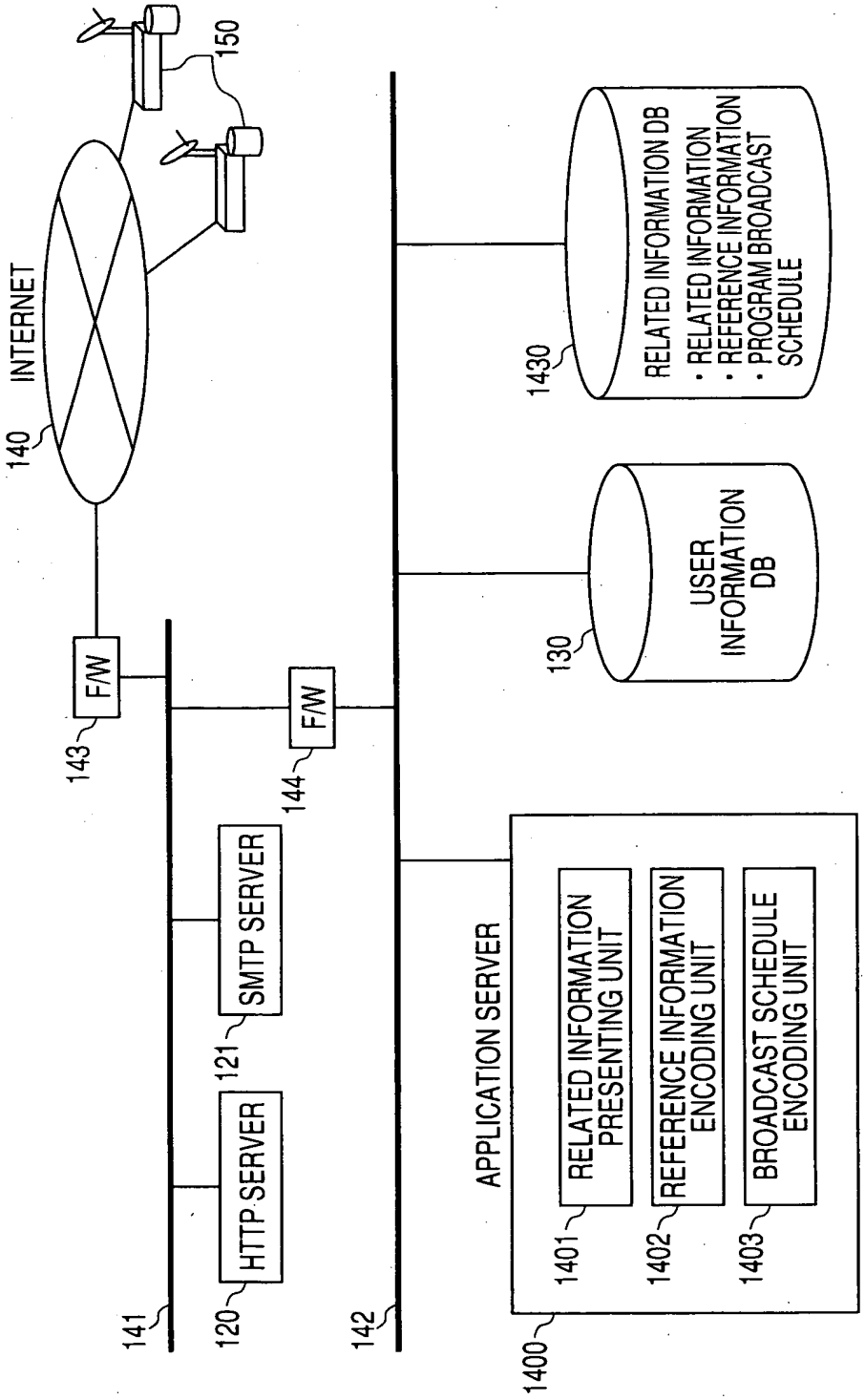

PROGRAM SERIES TABLE
202
ID
SERIES TITLE
10
○○
11
□□
12
△△
BULLETIN BOARD TABLE
201
ID
BULLETIN BOARD NAME
PROGRAM SERIES ID
200
BULLETIN BOARD OF ○○
10
201
BULLETIN BOARD OF □□
11
202
BULLETIN BOARD OF △△
12
REMARK TABLE
203
ID
ID OF PERSON MAKING REMARK
BULLETIN BOARD ID
CONTRIBUTION DATE
REMARK
REFERENCE INFORMATION ID
1
1432
200
2002/01/14 23:13:21
WHERE IS LOCATION SITE OF THIS SCENE?
1
2
2121
200
2002/01/14 23:15:23
PROBABLY, SHINAGAWA INTER CITY
NULL
3
7231
202
2002/01/15 00:01:05
THIS ACTOR (ACTRESS) PLAYS SUCH A ROLE RECENTLY, ISN'T HE (SHE)?
2
1301
PROGRAM TABLE
ID
PROGRAM TITLE
SERIES ID
SERIAL NUMBER IN SERIES
AFFILIATED NETWORK
BROADCAST START DATE AND TIME
BROADCAST END DATE AND TIME
134
○○ (THIRD EPISODE)
10
3
ANN
2002/01/14 22:00
2002/01/14 22:45
135
○○ (FOURTH EPISODE)
10
4
ANN
2002/01/14 22:45
2002/01/14 23:00
136
□□ (EIGHTH EPISODE)
11
8
ANN
2002/01/14 23:00
2002/01/14 23:55
REFERENCE INFORMATION TABLE
204
ID
REFERENCE POSITION
PROGRAM ID
1
00h07m31s
134
2
00h34m24s
158
3
00h14m05s
231
1302
STATION-REGION RELATION TABLE
AFFILIATED NETWORK
BROADCASTING STATION NAME
REGION CODE
CHANNEL NUMBER
ANN
○○ BROADCASTING STATION
A001
1
ANN
○○ BROADCASTING STATION
A002
3
FNN
TELEVISION xx
A001
10

FIG. 14


INTERNET
140
150
F/W
143
F/W
144
141
142
HTTP SERVER
120
SMTP SERVER
121
USER INFORMATION DB
130
RELATED INFORMATION DB
• RELATED INFORMATION
• REFERENCE INFORMATION
• PROGRAM BROADCAST SCHEDULE
1430
APPLICATION SERVER
RELATED INFORMATION PRESENTING UNIT
1401
REFERENCE INFORMATION ENCODING UNIT
1402
BROADCAST SCHEDULE ENCODING UNIT
1403
1400